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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,590	12/03/2003	Mahmood Hossain	P18430US2	3440
7590 ALEX NICOLAESCU Ericsson Canada Inc. Patent Department (LMC/M/P) 8400 Decarie Blvd. Town Mount Royal, QC H4P 2N2 CANADA			EXAMINER VUONG, QUOCHIE B	
			ART UNIT	PAPER NUMBER
			2618	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/725,590

Applicant(s)

HOSSAIN ET AL.

Examiner

Quochien B. Vuong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The information disclosure statement (IDS) submitted on 12/03/2003 and 10/27/2004 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 4-6, 13, and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Gau et al. (EP 1180893 A1).

Regarding claim 1, Gau et al. (figures 2 and 3) disclose a method for translating a data frame comprising the steps of:

- a. receiving a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame;
- and
- b. translating the PPPoE data frame into a PPP over Generic Routing Encapsulation (GRE) data frame (paragraphs [0011] – [0015]).

Regarding claim 4, Gau et al. disclose wherein step b. comprises the step of:

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b.1 converting an Ethernet header of the PPPoE data frame to a GRE header in the PPP over GRE data frame (paragraphs [0011] – [[0013]).

Regarding claims 5 and 6, Gau et al. disclose wherein the PPPoE data frame is a signaling or traffic data frame (paragraphs [0011] – [[0013]).

Regarding claim 13, Gau et al. (figures 2 and 3) disclose a method for translating a data frame comprising the steps of:

- a. receiving a PPP over Generic Routing Encapsulation (GRE) data frame; and
- b. translating the PPP over GRE data frame into a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame (paragraphs [0011] – [0015]).

Regarding claim 16, Gau et al. disclose wherein step b. comprises the step of:

b.1 converting a GRE header of the PPP over GRE data frame into an Ethernet header of the PPPoE data frame (paragraphs [0011] – [[0013]).

Regarding claims 17 and 18, Gau et al. disclose wherein the PPPoE data frame is a signaling or traffic data frame (paragraphs [0011] – [[0013]).

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2, 3, 7-12, 14, 15, and 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gau et al. in view of Jones et al. (US 6,879,600).

Regarding claim 2, Gau et al. disclose the method of claim 1 above. Gau et al. do not specifically disclose the step of: c. sending the PPP over GRE data frame to a Packet Data Service Node (PDSN) of a CDMA2000 network. However, Jones et al. disclose wireless communications conform to CDMA200 (column 16, lines 43-64). Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to use the CDMA200 network in the method of Gau et al. to support wireless communications for portability and wider environment.

Regarding claim 3, Gau et al. disclose the method of claim 1 above. Gau et al. do not specifically disclose the step of: d. prior to step a., sending the PPPoE data frame from a Wireless Local Area Network (WLAN) client to a WLAN Access Control Point (APC); wherein step a. is performed in the WLAN APC. However, Jones et al. disclose wireless communications conform to the WLAN (column 16, lines 43-64). Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to use the WLAN in the method of Gau et al. to support wireless communications for portability and wider environment.

Regarding claim 7, Gau et al. (figures 2 and 3) disclose a network that acts to receive a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame and to translate the PPPoE data frame into a PPP over Generic Routing Encapsulation (GRE) data frame (paragraphs [0011] – [0015]). Gau et al. do not specifically disclose a WLAN Access Control Point (APC). However, Jones et al. disclose wireless communications conform to the WLAN (column 16, lines 43-64). Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to use the

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WLAN in the network of Gau et al. to support wireless communications for portability and wider environment.

Regarding claim 8, Gau et al. and Jones et al. disclose the network of claim 7 above. In addition, Gau et al. disclose the network sends the PPP over GRE data frame to a Packet Data Service Node (PDSN) (paragraphs [0011]- [0013]) and Jones et al. disclose wireless communications conform to CDMA200 (column 16, lines 43-64).

Regarding claim 9, Gau et al. and Jones et al. disclose the network of claim 7 above. In addition, it is inherent for the WLAN APC of Gau et al. and Jones et al. to receive the PPPoE data frame from a Wireless Local Area Network (WLAN) client to establish a connection and perform the translation (paragraphs [0011] – [0014]).

Regarding claim 10, Gau et al. disclose converting an Ethernet header of the PPPoE data frame to a GRE header in the PPP over GRE data frame (paragraphs [0011] – [0013]).

Regarding claims 11 and 12, Gau et al. disclose wherein the PPPoE data frame is a signaling or traffic data frame (paragraphs [0011] – [0013]).

Regarding claim 14, Gau et al. disclose the method of claim 13 above. Gau et al. do not specifically disclose the step of: c. sending the PPPoE data frame to a WLAN client of a WLAN network. However, Jones et al. disclose wireless communications conform to the WLAN (column 16, lines 43-64). Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to use the WLAN in the method of Gau et al. to support wireless communications for portability and wider environment.

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Regarding claim 15, Gau et al. disclose the method of claim 13 above. Gau et al. do not specifically disclose the step of: d. prior to step a., sending the PPP over GRE data frame from a Packet Data Service Node (PDSN) of a CDMA2000 network to a WLAN APC. However, Jones et al. disclose wireless communications conform to CDMA200 (column 16, lines 43-64). Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to use the CDMA200 network in the method of Gau et al. to support wireless communications for portability and wider environment.

Regarding claim 19, Gau et al. (figures 2 and 3) disclose a network that acts to receive a PPP over Generic Routing Encapsulation (GRE) data frame and to translate the PPP over GRE data frame into a Point-to-Point Protocol (PPP) over Ethernet (PPPoE) data frame (paragraphs [0011] – [0015]). Gau et al. do not specifically disclose a WLAN Access Control Point (APC). However, Jones et al. disclose wireless communications conform to the WLAN (column 16, lines 43-64). Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to use the WLAN in the network of Gau et al. to support wireless communications for portability and wider environment.

Regarding claim 20, Gau et al. and Jones et al. disclose the network of claim 19 above. In addition, it is inherent for the WLAN APC of Gau et al. and Jones et al. to receive the PPPoE data frame from a Wireless Local Area Network (WLAN) client to establish a connection and perform the translation (paragraphs [0011] – [0014]).

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Regarding claim 21, Gau et al. and Jones et al. disclose the network of claim 19 above. In addition, Gau et al. disclose the network sends the PPP over GRE data frame to a Packet Data Service Node (PDSN) (paragraphs [0011]- [0013]) and Jones et al. disclose wireless communications conform to CDMA200 (column 16, lines 43-64).

Regarding claim 22, Gau et al. disclose converting a GRE header of the PPP over GRE data frame into an Ethernet header of the PPPoE data frame (paragraphs [0011] – [[0013]).

Regarding claims 23 and 24, Gau et al. disclose wherein the PPPoE data frame is a signaling or traffic data frame (paragraphs [0011] – [[0013]).

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quochien B. Vuong whose telephone number is (571) 272-7902. The examiner can normally be reached on M-F 9:30-18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Quochien B. Vuong  
Feb. 04, 2007.

**QUOCHIEN B. VUONG**  
**PRIMARY EXAMINER**